S. C. MEGILL.

Jack-Screw.

No. 216,284. Patented June 10, 1879.

Fig. 1

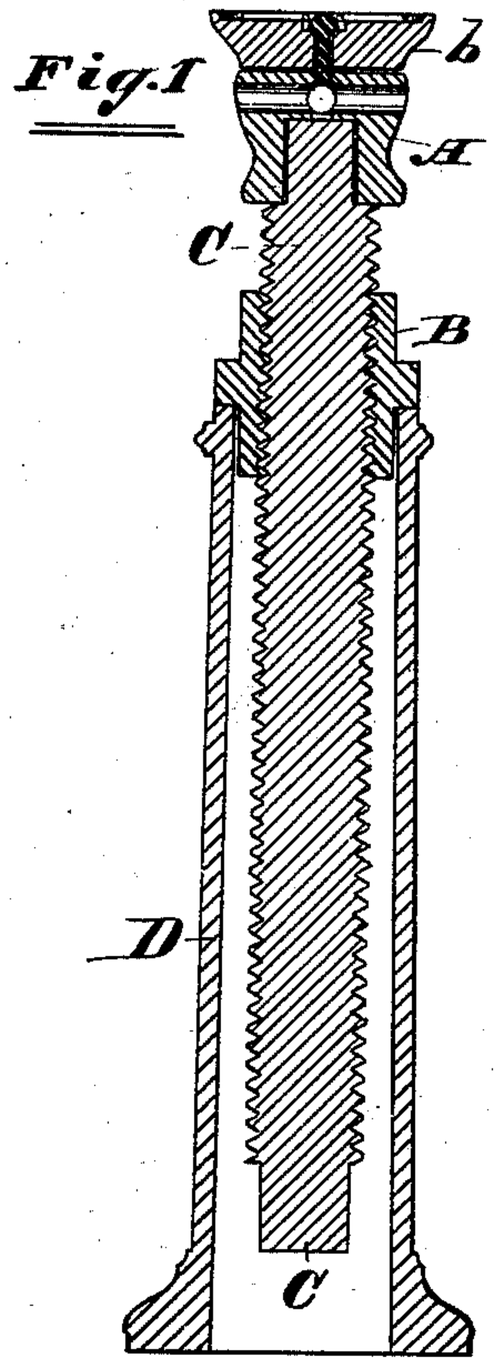


Fig. 2

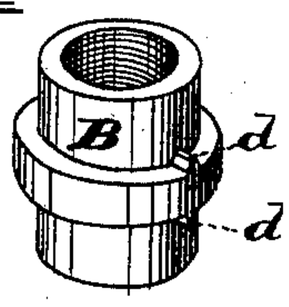


Fig. 3

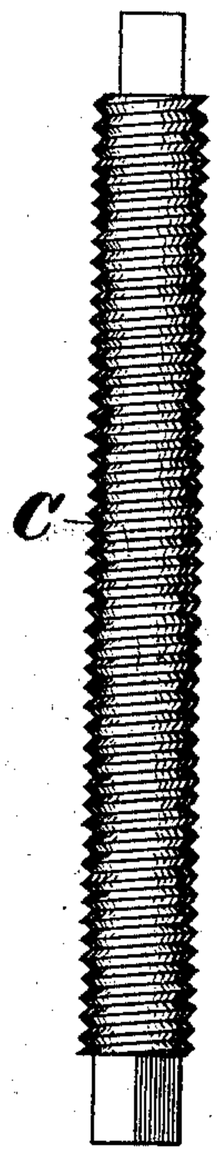


Fig. 4

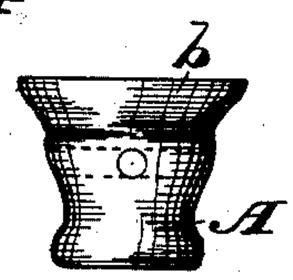


Fig. 5

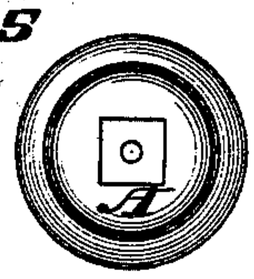
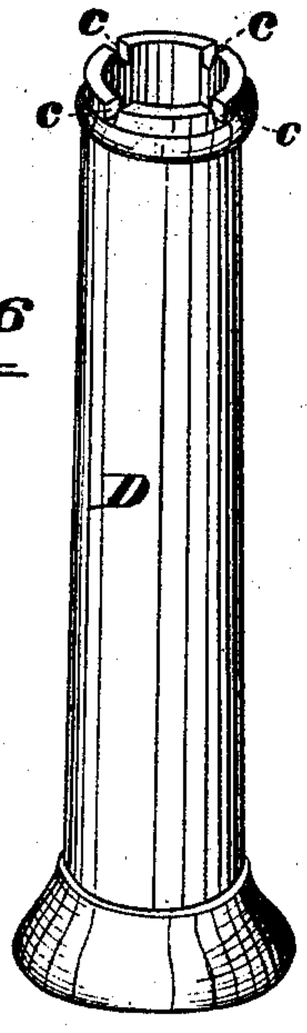


Fig. 6



Attest:

W. L. Baker.

C. B. Baker.

INVENTOR:

Sebring C. Megill

UNITED STATES PATENT OFFICE

SEBRING C. MEGILL, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO ALGERNON B. BALDWIN, OF SAME PLACE.

IMPROVEMENT IN JACK-SCREWS.

Specification forming part of Letters Patent No. **216,284**, dated June 10, 1879; application filed June 28, 1878.

To all whom it may concern:

Be it known that I, SEBRING C. MEGILL, of the city of Chicago, county of Cook and State of Illinois, have invented certain new and useful Improvements in Jack-Screws, which improvements are fully set forth in the following specification and drawings, in which—

Figure 1 is a sectional view of a jack-screw, showing my improvements. Fig. 2 is a perspective view of the reversible nut, with flange in the center or at a suitable distance from each end, allowing either end of the nut to be placed in the column or standard, Fig. 6, as desired. Fig. 3 is a common screw, made square or of other suitable shape at each end, to allow it to fit into the socket in the top or purchase-head, Fig. 4, the top or purchase-head being separate and removable from the screw instead of composing a single piece with it, as in the common jack-screw. Fig. 4 is the top or purchase-head, with socket in it, to allow of its being placed on either end of the screw above described, Fig. 3. Fig. 5 is a view of the under side of the top or purchase-head, showing the socket for the end of the screw. Fig. 6 is a separate column or standard, with notches C C at the top to receive the pieces *d d* projecting upon each side of the flange on the reversible nut, Fig. 2, to connect or hold the nut and column, so that they will remain stationary while the screw is being rotated.

The object of my invention is to furnish a device by which any weight may be raised or any purpose accomplished for which a jack-screw is used much more expeditiously than by the common jack-screw, and also to furnish a jack-screw much more durable than those heretofore in use.

These ends are accomplished by the use of the loose or removable head and reversible nut and screw above described.

With the common jack-screw, the weight having been raised to a height equal to the length of the screw, before it can be raised higher or the screw used to raise another weight, it is necessary to turn the nut or screw down to the original position, causing great loss of time, whereas with my improvement it is only necessary to remove the loose head, Fig. 4, from the top of the screw, Fig. 3, place it upon the other end, and invert the screw, when it is at once ready for use.

Another advantage is that the screw being reversed, the friction or wear is brought upon both sides of the thread alternately, instead of being at all times upon one side, as in the ordinary jack-screw. The friction of turning the screw down is also saved, for both of which reasons my improvement is much more durable.

It will be seen that with my improvement the jack-screw can be used either separately as a screw and nut only, as used by house movers and raisers, by blocking the same up, or as a standard or column screw, Fig. 1, as used in raising cars, machinery, &c.; and the same is designed to be used either with or without a standard or column.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The double or reversible nut, with flange at suitable distance from each end, having projections *d d* on each side to fit in notches *c c* in standard or column D, constructed substantially as described.

2. The loose or removable purchase-head, with socket made to fit the end of screw, in combination with right or left screw, and constructed substantially as described and shown.

3. The screw with square or other suitably-shaped ends to fit in the loose or removable head to connect the same, so that they will rotate together, constructed substantially as described and shown.

4. The independent column or standard, with notches *c c*, in combination with reversible nut, screw, and loose head, all constructed and arranged substantially as described and shown.

5. The reversible nut, with flange at suitable distance from each end, in combination with the removable head and with the screw, each end of which is adapted to receive the removable head, constructed substantially as described and shown.

SEBRING C. MEGILL.

Witnesses:

E. W. ADKINSON,

H. W. MAGEE.